UniMobile

for Android (Phone / Tablet)

Version 3.0

User Manual

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Introduction

UniMobile is an additional application of UniWin®.

UniMobile for Android is a remote application that allows weighing/scaling of vehicles/goods using your Android phone or tablet.

UniMobile is free of charge and functional for users owning a UniWin solution with UniScreen/UniMobile functionality.

Features:

- Ability to use the built-in camera.
- Ability to scan barcodes using the built-in camera.
- Ability to use the built-in GPS-device for location tracking.
- Ability to record a signature.
- Ability to overview of entered reference data, including reference images/photoôs and GPS-location.
- Multi lingual.
- Applicable to all transaction-types of the UniWin solution, such as weighing/scaling, registering vehicles, perform access control, etc.
- Menu to suite user-preferred language and/or colour settings.

The application is very suitable to be used on devices that are operative in environments where a normal desktop-pc cannot be used.

We have limited this manual to explain the basic functions of UniMobile. These functions cover all basic fields of operation in the latest version of UniWin (V3). Whether functions are available or not depends on the configuration of your UniWin solution.

Mode Online/Offline/Standalone

The application can be setup in 3 connection modes;

1.	Online	This application has a continuous connection with the UniWin Server application. UniMobile is reading and writing data directly from/to the UniWin Server database.
2.	Offline	This application is similar to the Online application. The difference being the continuous connection with the UniWin Server. The data is locally buffered and when the terminal is in reach of a WLan/2G, 3G or 4G connection, the data can be synchronized with the UniWin Server database.
3.	Standalone	In short this application works on its own. There is no UniWin Server application needed. All transactions/weighings are locally stored in *.csv file. With use of E-Mail or other sync functions these files can be transferred to a PC-environment.

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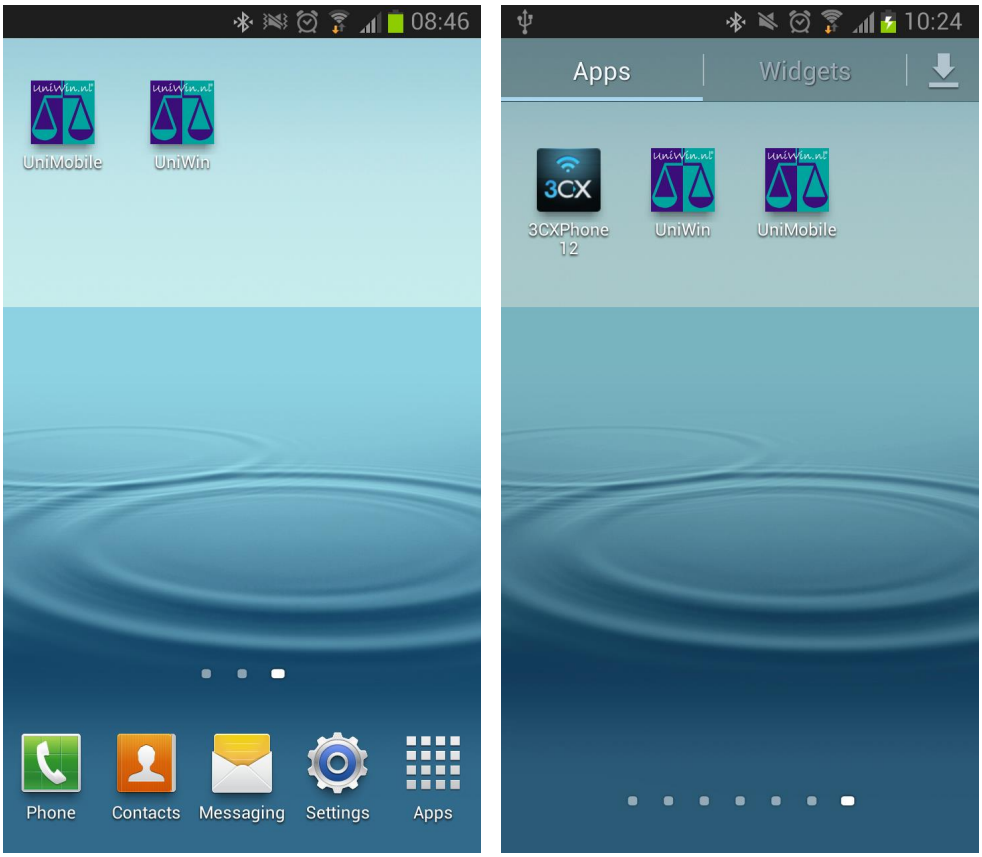
Start-up UniMobile

UniMobile starts up like any other program running on an Android device.

Start-up

UniMobile opens by selecting the UniMobile icon from one of your main screens or find UniMobile in the applications menu.



First Time

Online

Press the ómenu-buttonô and select óSettingsô.
Select óConnectionô > óModeô > óOnlineô.

Select óConnectionô > óUniWin Hostô > IP-address or Hostname of UniWin
(Make sure the UniWin Server or UniWin-Client is turned on.)

Select óConnectionô > óUniWin Portô > 6000
(This depends on the settings in the UniWin.ini. Contact your supplier for the settings.)

Select óConnection > óAddressô > óValue _ or 0Xô
(When the value is ó_ô this is a random address. When using a fixed address, this could be affect by the configuration.)

Offline

Press the ómenu-buttonô and select óSettingsô.
Select óConnectionô > óModeô > óOfflineô.

Select óConnectionô > óUniWin Hostô > IP-address or Hostname of UniWin
(Make sure the UniWin Server or UniWin-Client is turned on.)

StandAlone

Press the ómenu-buttonô and select óSettingsô.
Select óConnectionô > óModeô > óStandAloneô.

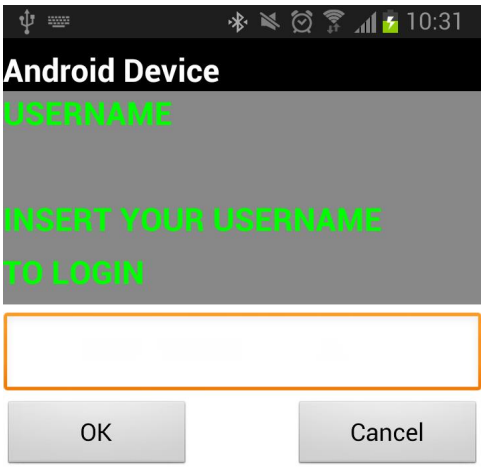
When returning to UniMobile the next message will appear. óValidation Requiredô
Press óOKô and follow the License-instructions on the screen.

To activate óUniMobile StandAloneô a license is required. This will be delivered with the *.prg.
(Donôt have a license? Please contact you supplier for the license.)
Activation:

1. Company Name
2. Company Location
3. UniWin Serialnumber
4. UniWin Activation-code
5. Validation-code (http://www.uniwin.nl/uniscreen/ or contact your supplier)
6. Confirm (internet connection required)
7. Registration Succesfull / Failed

Login

When starting-up the login-screen might be first screen that appears.
This depends on the setup of the application, since this functionality needs to be activated.



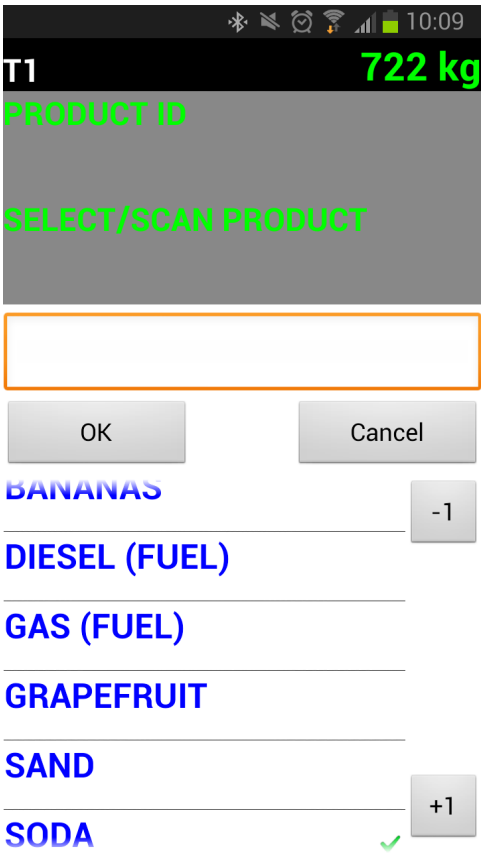
If you have not setup a UniWin host (UniWin Host is blank), you will be given the option to connect to the Demo UniWin App.

Depending on the setup of your UniWin solution, you can be asked to enter an ID/Username and optionally a password, before the main dialogue is shown.

Note: When you have setup optional UniWin hosts in your settings, the device will first show you a list of UniWin hosts you can select from.

Dialog Screen

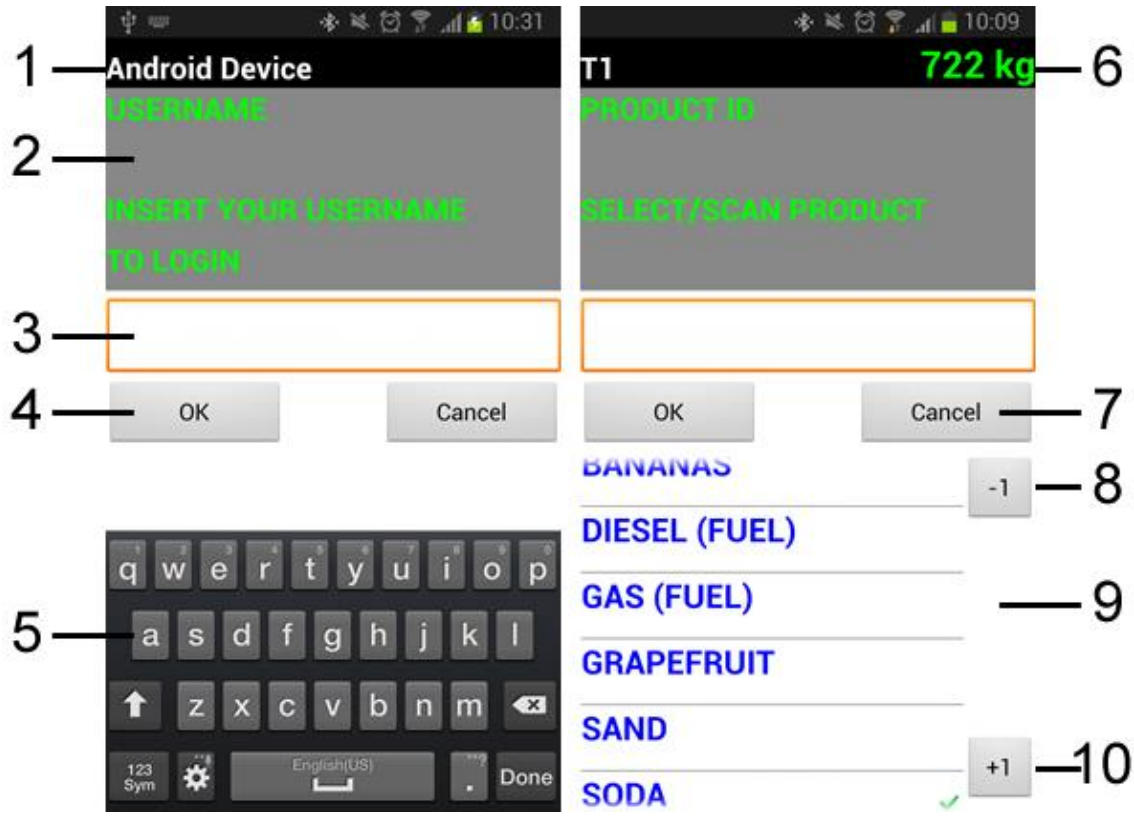
After start-up and possible login, UniMobile shows its default dialog screen.
Which question UniMobile presents in this screen depends on the setup of the application.



The weighing process starts here.
When a weighing is finished or cancelled, the system will return to this screen.

User-Interface

This chapter explains all the buttons, functions that can be presented during the registration of a transaction/weighing.

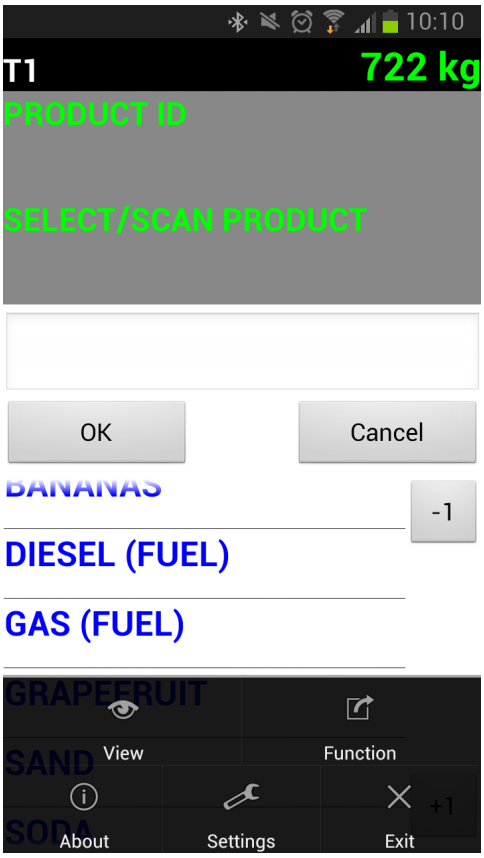


1. Terminal ID — This shows the name of the terminal in use. When no connection is active, it will show Connectingé
2. Display Lines — This part of the screen shows the display lines used for questions / references. It is also possible a reference to an image is displayed, the line will show a ñphoto-iconò. Click on it to show the image.
3. Entry Box — This box is used to enter data by keyboard.
4. OK — This button is used to confirm a keyboard entry or confirm the default selection from the scroll-list.
5. Keyboard — The default system keyboard to enter data. If the keyboard is hidden, you can show it by tapping the Entry Box.
6. Weight — This displays the actual weight of the connected weighing-device.
7. Cancel — This button is used to cancel all entries. The registration is cancelled and the device returns to the default screen (First question).
8. Scroll Function -1 — Go back 1 page. Used when not all options are shown in the Scroll list. (a -10 pages can also be switched on)
9. Scroll list — Here a selection list can be shown, from which you can select. The default choice is marked with the green check. You can scroll through the list, or use the +1, -1 functions to go to other pages. You may also enter some letters in the entry box for the system to search for possible entries. When not all data can be shown in a row, press and hold for a popup hint.
10. Scroll Function +1 — Go forward 1 page. Use when not all options are shown in the Scroll list. (a +10 pages can also be switched on)

Menu

During the dialog several functions are available, these functions can be activated by pressing the ómenu-buttonô

Note: Which functions are available depends on the state of the system.



Menu

Under this function the following options can be found depending on the application.

1. View — Entered or generated data by the system can be viewed here.
2. Function — Depending on the setup of UniMobile some functions can be set here.
3. About — This screen shows the most important information about UniMobile.
4. Settings — Settings gives the possibility to edit settings in UniMobile.
5. Exit — Exit UniMobile.

Menu/View

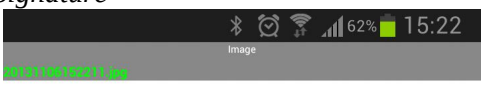
After the dialog is started, the view function becomes available.

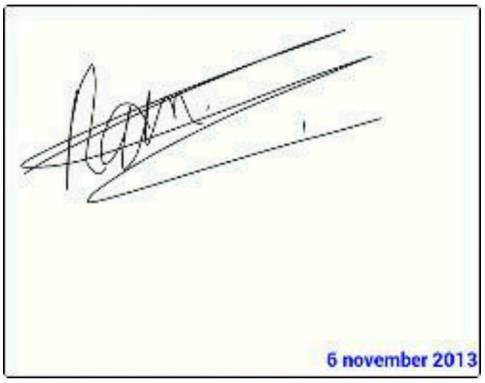
When selected, the device shows the transactional data of the current registration in a list. Data already entered or generated by the system can be viewed here.

For 2 types of data, you can select a detail of it. They are maked with the ñchild iconò in a row.

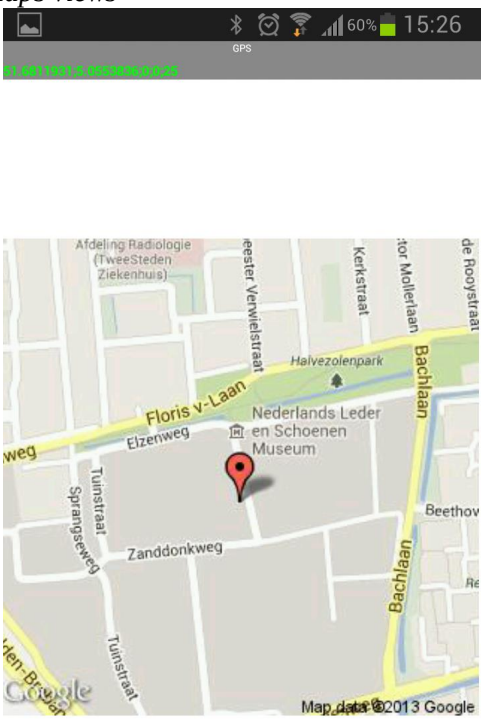
- Image data, like photoôs or signatures can be viewed by clicking the row.
- Position/Location data can be viewed by clicking the row (Google Maps).
  Maps can be shown either static or dynamic (see settings).

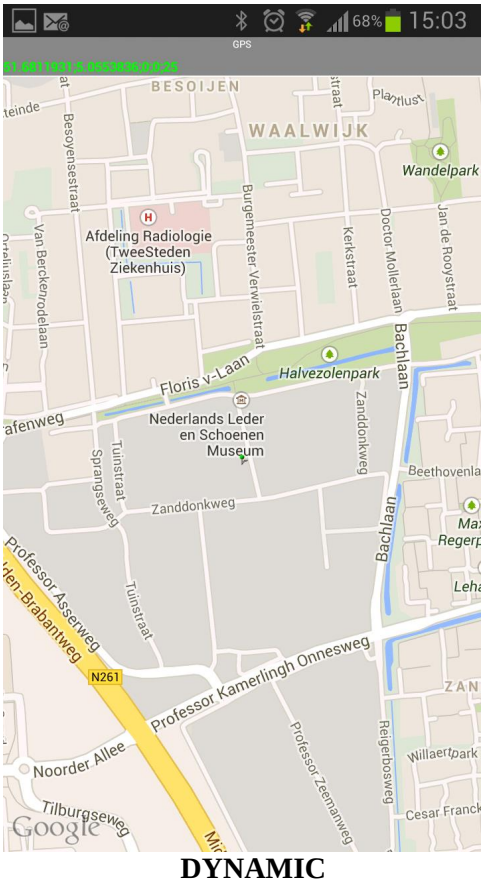
Photo & Signature





Google Maps views



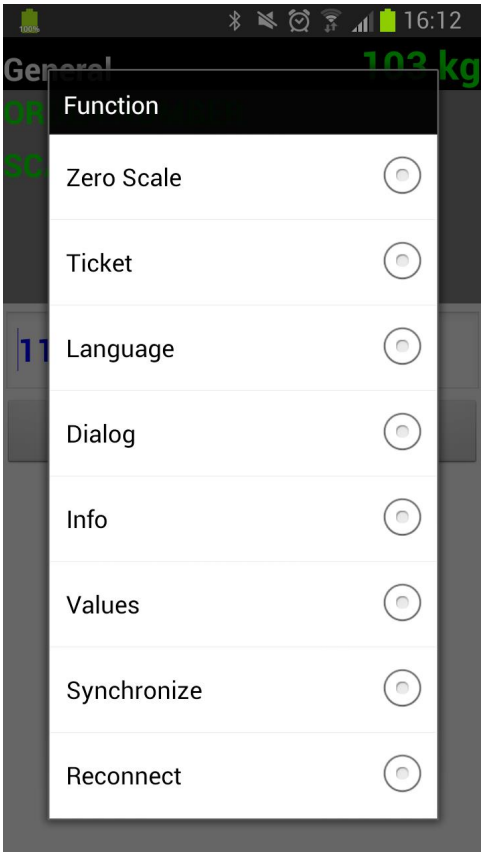


STATIC **DYNAMIC**

Menu/Function

When select:

1.	Zero scale	The scale will be set to ó0ô (when set in configuration)
2.	Ticket	The ticket of the last transaction will be shown or printed.
3.	Language	A language can be chosen here. (when set in configuration)
4.	Dialog	A other dialog can be chosen here. (when set in configuration)
5.	Info	The information related to this setup will be showed.
6.	Values	The fixed values can be set here. (when set in configuration)
7.	Synchronize	UniMobile wants to synchronize via E-Mail or UniWin (host-/portnr.).
8.	Reconnect	UniMobile restarts/reconnect his application.
9.	Login	The current user will be logged off and UniMobile will return to the Login-screen.



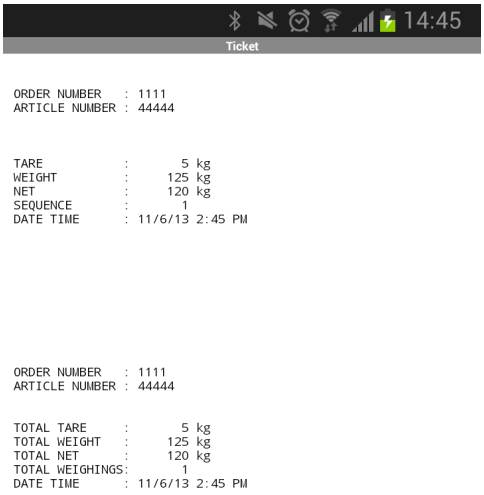
Zero Scale

Depending on the setup of the UniWin solutions, you can select this function to zero a scale.

Note: The zero may only be activated for only some users, or only when a weight is within the so-called zero range.

Ticket

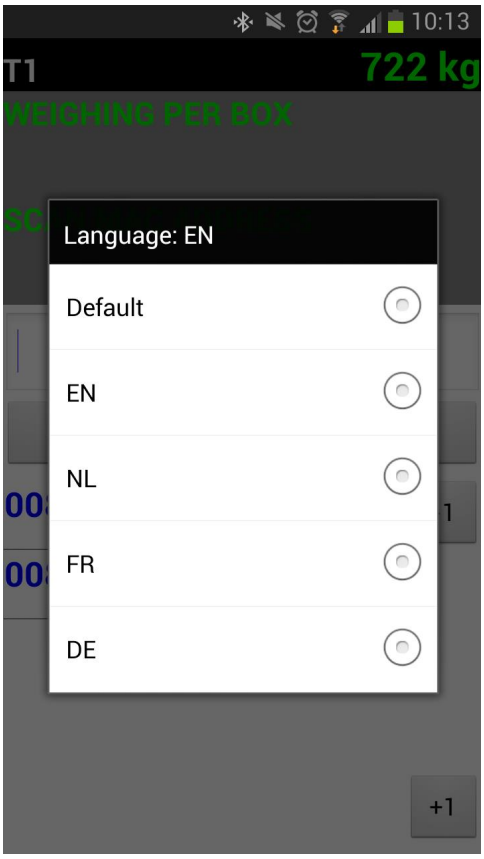
Displays the ticket of the last transaction performed on the device.



After every transaction UniWin can print one or multiple tickets. Tickets might also be sent via e-mail. Since UniMobile does not have any printer connections, UniWin can be setup to send a simple ticket of the transaction to the device. This ticket can be used as a reference.

Language

Select your preferred language from this list.



The UniWin solution can be setup for multiple languages. Which language to use, can be selected from this list.

Selecting the option ñDefaultò, runs the dialogôs in the language as defined by the UniWin solution.

Dialog

Depending on the setup of the UniWin solutions, you can select this function to change dialog. This function is only avaible in the default dialog screen.

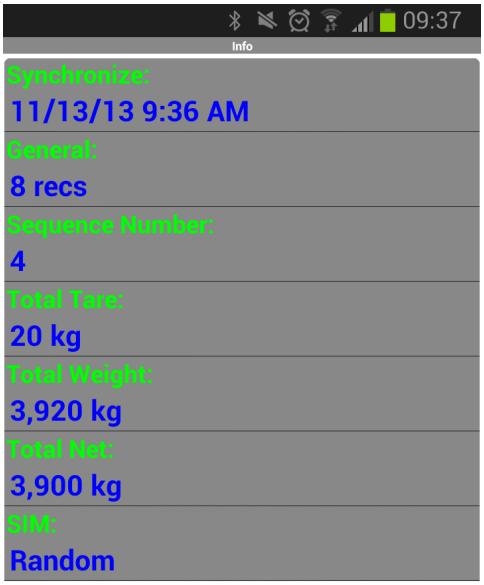
Note: The option óAllow Dialogô needs to be enabled in óSettingsô > óScreenô.

Info

This function shows information related to the last synchronization and current state.
Information that could be shown:

- Last synchronisation
- Dialog records
- CSV records
- Totals
- Scale status

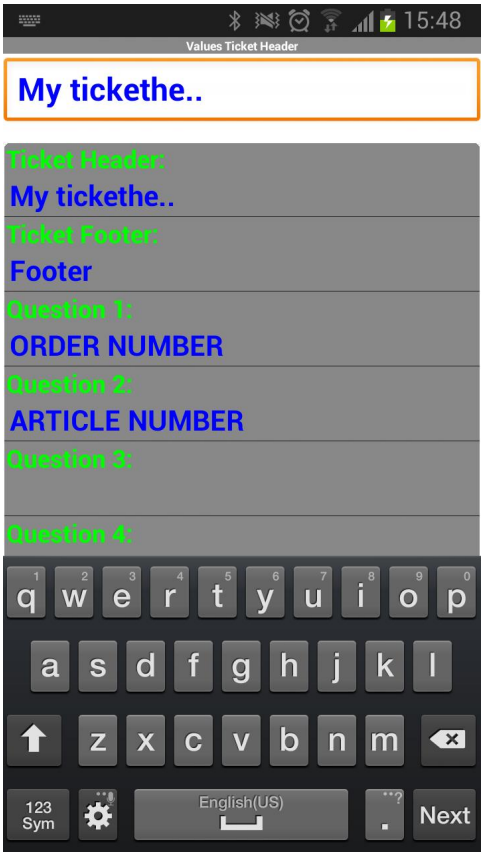
Note: Depending on the setup of the UniWin solution, the data will be shown.



Values

This function allows the possibility for system values to be changed or reset.
When selected a value, this value can be changed in the field in top of the screen.

Note: Depending on the setup of the UniWin solution, the system values can be changed.



Synchronize

This function is used to synchronize transactions/weighings with the UniWin Server.
Data can also be send via E-Mail.
Also updates of customer/products/orders/picklists can be synchronized from UniWin Server towards UniMobile.

Note: This function is only available in Offline/StandAlone mode and needs a network connection.

Reconnect

This function is used to reconnect or reload.

Online: When a Mobile/Wi-Fi connection gets interrupted, this function can be used to reconnect with the UniWin Server.

Offline/StandAlone: This function is used to reload a dialog.

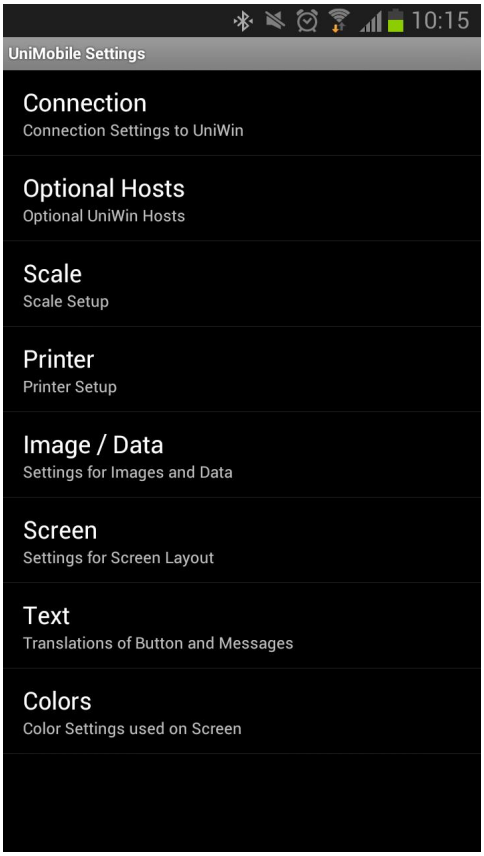
Note: When you have setup optional UniWin hosts in your settings the device will show you a list of UniWin hosts you can select from.

Login

Depending on the setup of the UniWin solution, this option will be shown.
When select this function, the current user will be logged off and UniMobile will return to the Login-screen.

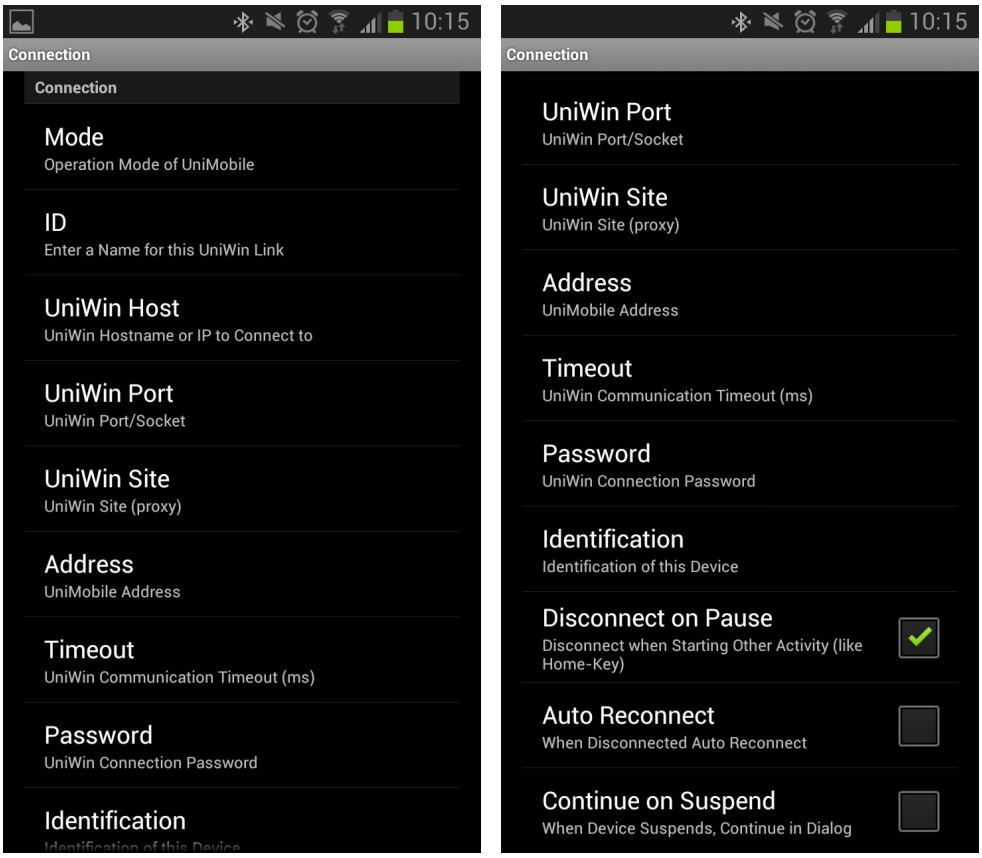
Menu/Settings

This brings up the settings/preferences menu of UniMobile.



Connection

The connection settings are needed to setup the connection with the UniWin server.

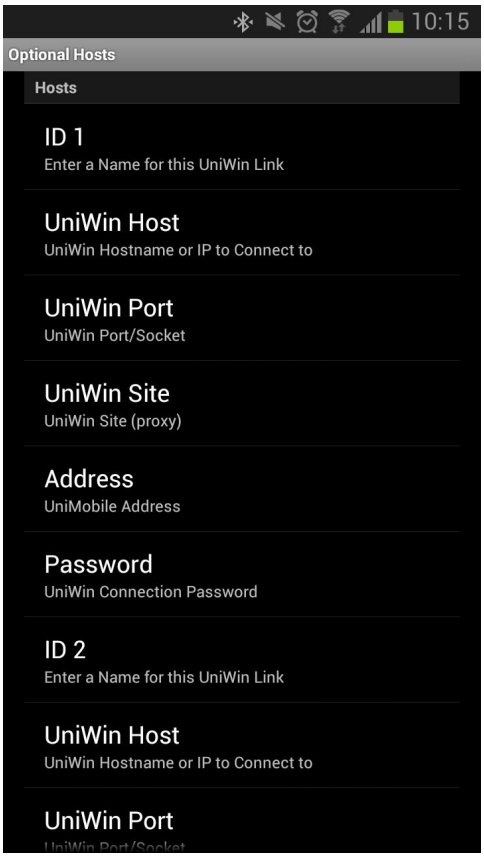


Please ask your System Administrator for any details of the connection.

Mode: This function holds 3 options. Online, Offline and StandAlone.
ID: A free entry to identify this connection.
UniWin Host: The IP/Hostname of the UniWin server.
UniWin Port: The port/socket on the UniWin server (normally: 6000)
UniWin Site: When connecting to UniProxy, you can enter the fixed site-id here.
Address: A text/numeric entry identifying the UniWin Address.
Leave at ñ_ò (underscore) to get the first available address.
Timeout: A timeout setting needed for the communication (normally 30000).
Password: An optional password needed to activate the link.
Identification: The name of this device.
Disconnect on Pause: Setting to disconnect from UniWin, when the application is paused. E.g. when another activity is started.
Note: This option affects the battery life.
Auto Reconnect: When the connection with UniWin Server is lost, UniMobile automatically retry to reconnect to the UniWin Server. (e.g. due to out of Wifi range)
Continue on Suspend: Only for Auto Reconnect and fixed Address. UniMobile will try to continue with the dialog, when a device went into suspend mode during entry of data in a dialog.

Optional Hosts

This allows you to enter multiple UniWin hosts, so you can connect UniMobile to different solutions.

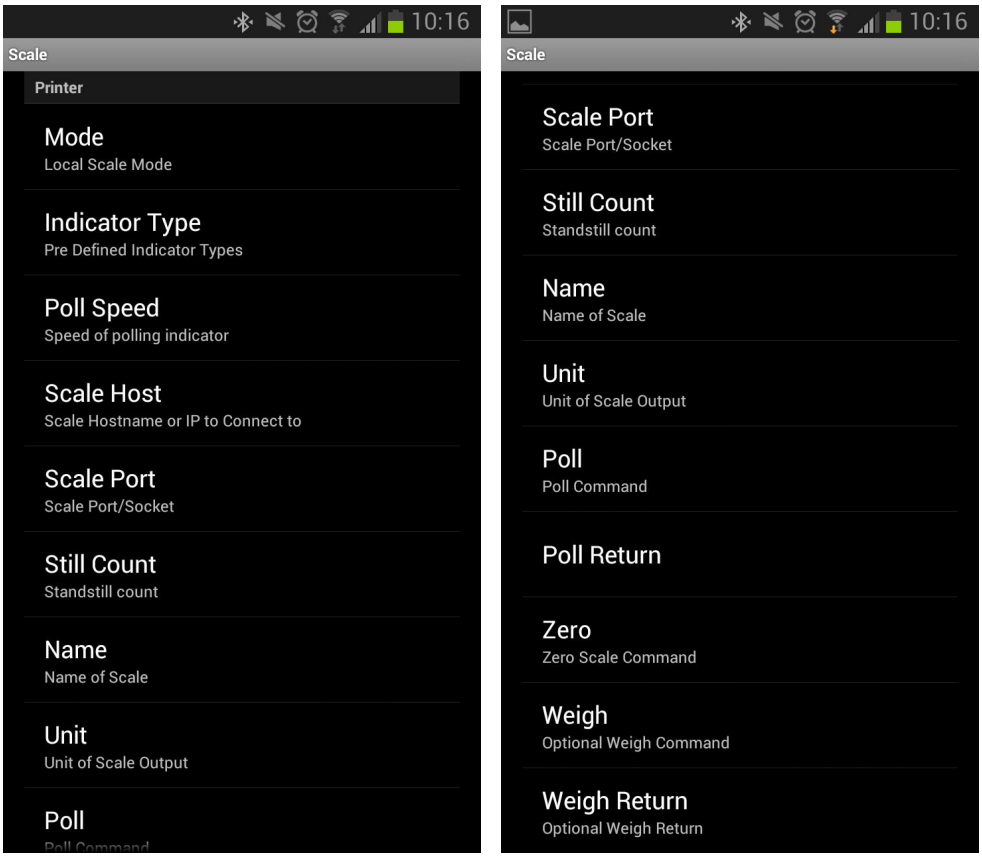


There is a maximum of 10 other hosts you can enter in this dialogue. When one of these hosts is selected during startup or reconnect of UniMobile, it will overrule the Connection settings as setup in the Connection dialog.

ID x:	A free entry to identify this connection.
UniWin Host:	The IP/Hostname of the UniWin server.
UniWin Port:	The port/socket of the UniWin server (normally: 6000)
UniWin Site:	When connecting to UniProxy, you can enter the fixed site-id here.
Address:	A text/numeric entry identifying the UniWin Address. Leave at ñ_ò (underscore) to get the first available address.
Password:	An optional password needed to activate the link

Scale

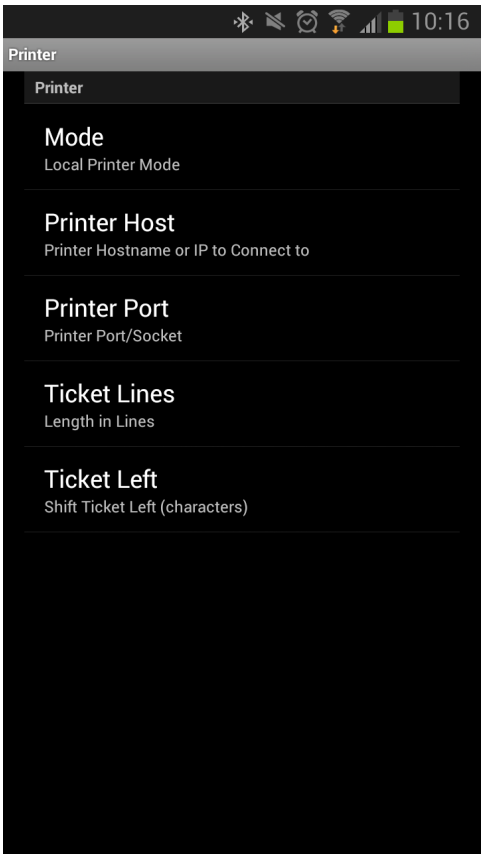
Layout settings of the screen can be adapted to your preferences.



Mode:	This function holds 3 options. None (no scale or weight coming from UniWin), Simulate and TCP/IP.
Indicator Type:	Gives the possibility to choose an indicator. Allows you to select communication parameters based on a standard.
Poll Speed:	This function hold 3 options. Slow, Normal and Fast.
Scale Host:	The IP/Hostname of the Scale.
Scale Port:	The Port/Socket of the Scale.
Still Count:	Standstill count can be set here. (normally: 2)
Name:	Name of Scale.
Unit:	Unit of Scale output.
Poll:	Poll command can be set here. (Only when Indicator Type is Custom)
Poll Return:	Poll Return command can be set here. (Only when Indicator Type is Custom)
Zero:	Zero Scale command can be set here. (Only when Indicator Type is Custom)
Weigh:	Weigh command can be set here. (Optional and only when Indicator Type is Custom)
Weigh Return:	Weigh Return command can be set here. (Optional and only when Indicator Type is Custom)

Printer

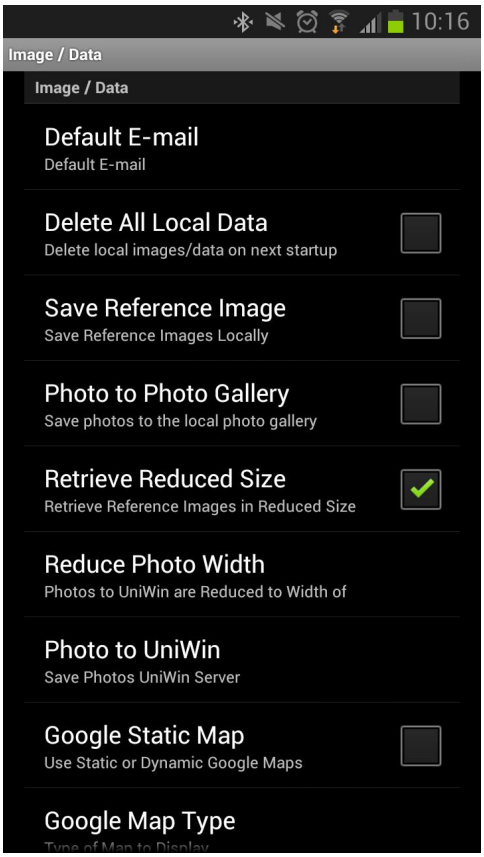
Layout settings of the screen can be adapted to your preferences.



Mode:	This function holds 4 options. None, Screen, TCP/IP and E-Mail.
Printer Host:	The IP/Hostname of the Printer.
Printer Port:	The Port/Socket of the Printer.
Ticket Lines:	Indicates the number of printing lines on a real ticket.
Ticket Left:	The left position of the entire ticket is moved.

Image/Data

Settings about images and other data files.



Most of these settings should be modified depending on the fact if the UniMobile is used in a local Wi-Fi network or needs Mobile data to connect to UniWin. Optimize these parameters for a quicker response and/or less Mobile data usage.

Default E-Mail: Default E-Mail address can be set here.

Delete Local Images: All images saved locally by UniMobile will be removed at the next start up of UniMobile. This function is performed only once, so is automatically disabled once it is performed.

Save Reference Image: When images are available for UniMobile and retrieved from UniWin, they are saved locally, so the next time they do not need to be retrieved.

Photo to Photo Gallery: When a photo is taken during a dialog, the photo is also saved to the Android Photo Gallery.

Retrieve Reduced Size: When retrieving images from UniWin, retrieve them in a smaller size, so they are collected quicker.

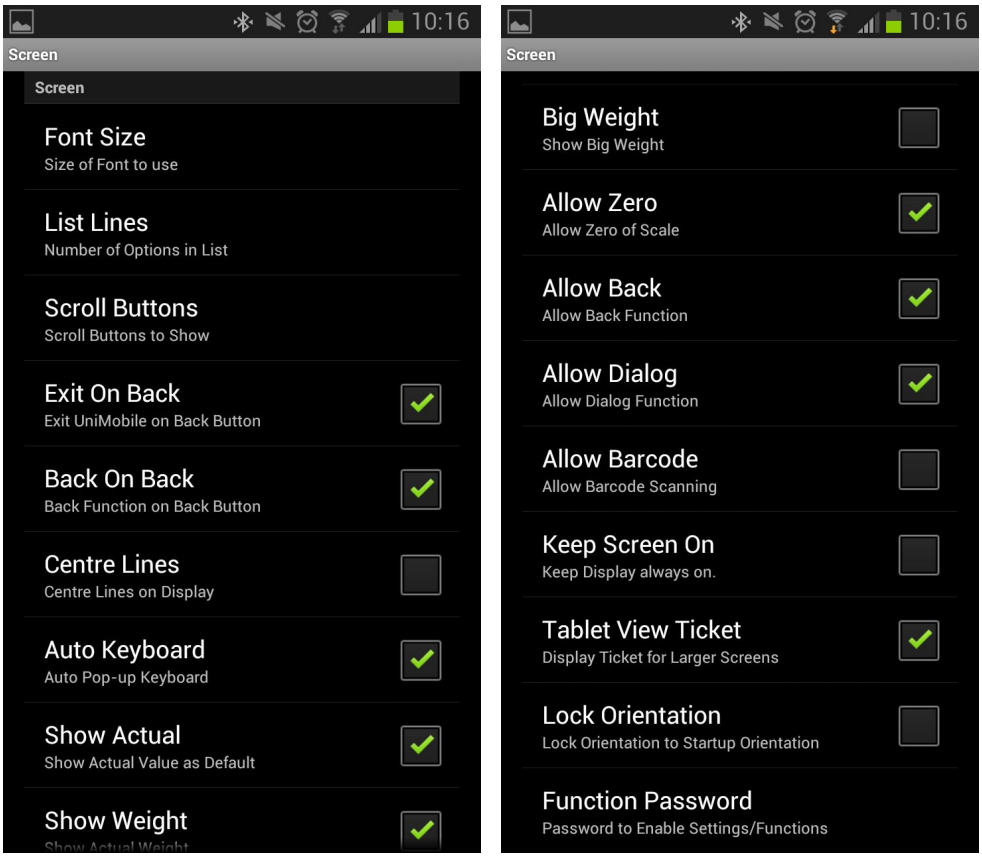
Reduce Photo Width: When a photo is taken during a dialog, the photo size is resized to meet the selected width.

Photo to UniWin: This function holds 3 options.
Never: Never transmits them (should enable option Photo to photo gallery).
Direct: Send the photo directly after it is taken.
At Registration: sends the photo when the transaction is completed.

Google Static Map:	Selects either the Static or Dynamic Google maps function, which can be activated in the View function.
Google Map Type:	You can select any of these map type views. **Note:** Not all of these map types might be available on your device.
Google Maps API Key:	In principle the usage of Google maps is free but limited to a number of times used per day. If you exceed this number of times, you might have to register with Google maps and retrieve a key. Enter this key here.

Screen

Layout settings of the screen can be adapted to your preferences.



Font Size: Select the font size for the display lines

List Lines: Select the maximum number of options shown in the scroll list. If you select a higher number, you may have to use the page buttons less, but the performance can be less.

Scroll Buttons: This function holds 4 options. Each option has a different Scroll function. None, Up/Down, Up/Down + First/Last and Up/Down +10 Up/Down

Exit on Back: When the Android ôbackô-button is pressed and there is nothing to go back to, the device asks to exit UniMobile.

Back on Back: Allow the Android ôbackô-button to go to the previous question.

Centre Lines: Display lines are centred or left-aligned.

Auto Keyboard: On a question without a scroll list, automatically show the keyboard.

Show Actual: Show the default (current) value in the entry box or scroll list.

Show Weight: Show the actual weight in the upper right corner.

Big Weight: Show the actual weight in the upper right corner in a bigger font.

Allow Zero: Allow and enable the Zero Scale function

Allow Back: Allow and enable the Back function (go back to previous question)

Allow Dialog: When the UniWin allows multiple dialogs, the Back function selects between the dialogs when the device is in the ñstart dialogò screen.

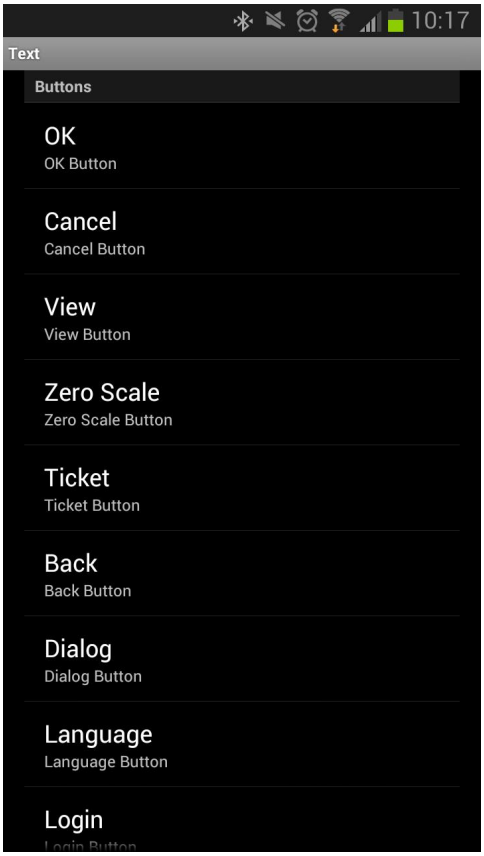
Allow Barcode: Enables the button (Between OK and Cancel) to scan barcodes. Note: Barcodes are scanned using the built-in camera. The responsiveness depends on the quality of camera / barcode. (Android 4.0 and higher)

Keep Screen On: When UniMobile is turned on, the screen keeps on as well.
Note: This option affects the battery life.

Tablet View Ticket: Displays a ticket in the dialog. (Option is for Large Screens)
Lock Orientation: The orientation of the screen is locked on start-up of UniMobile.
Function Password: A password can be given to Enable Settings/Functions. Only when this password is entered in the entry box of the main screen, will these functions become available.

Buttons

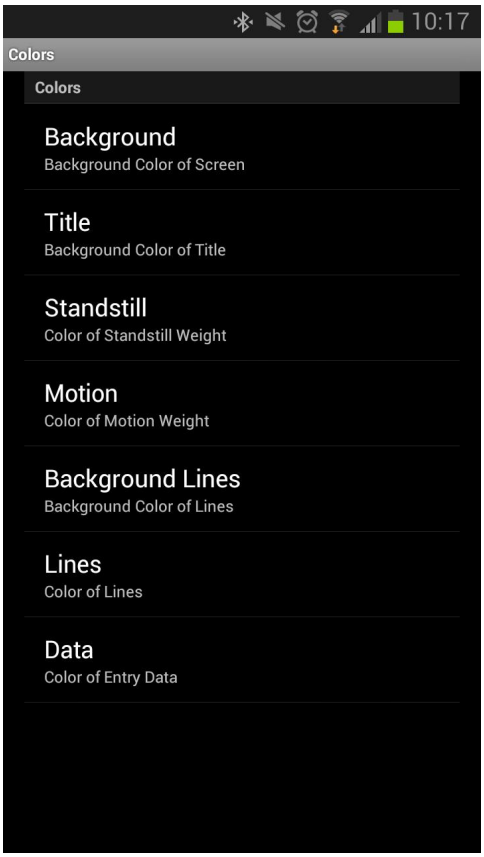
All buttons and functions are translated automatically to the language the device is in.



If your language is not supported or you like to rename any of the button or function names, select the button in this list and rename it to meet your preferences.

Colors

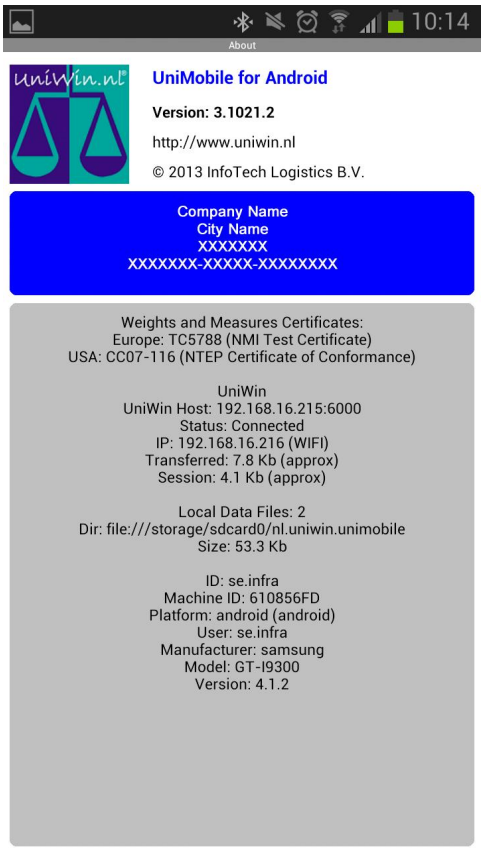
The colors of the UniMobile screen can be adapted to your preferences.



Select a part of the screen you want to modify and select the color that meets your preference.

Menu/About

This about screen shows details about the UniMobile for Android app.



It shows:

- Version information
- UniWin License information
- Connection settings
- Android settings.

Menu/Exit

This function is used to exit UniMobile.
The application and the connection with UniWin Server will be closed.

Installation

UniMobile for Android can be found in Google Play. Please search for UniMobile or UniWin to find the app in the store.

Just follow the instructions on your device to download and install UniMobile. We advise you update UniMobile on your device as soon as it becomes available in Google Play.

Requirements

The requirements of UniMobile are:

- Android device (phone or tablet) with android version 2.2 or higher.
- UniWin Server license with UniScreen/UniMobile functionality version 1.0.1.4 or higher.
- We advise to use 3.0/1.0.1.9 and higher for best performance and security. Needs UniWin 1.0.1.9 or higher for Photo and Maps functionality.

UniMobile works with Wi-Fi and Mobile data. However the setup on UniWin and firewalls must be checked to allow for remote connections. Please contact the System Administrator.

Standalone

This is an additional chapter regarding Standalone applications. It explains how to handle data-files and the information that UniMobile produces after each transaction/weighing.

Data-files (Base*.csv) can be used to hold Users, Products, Locations, etc.
Transaction-files (UniMobile*.csv) hold all details per transaction/weighing.
One record per transaction is created.

Depending on the application, these files can be named differently.

How to setup relevant data-files?

The relevant files are stored in the UniMobile data-folder on the Android-device (/storage/sdcard0/nl.uniwin.unimobile).
To add, replace or view these files, the files need to be placed in the UniMobile data-folder.

To copy these files from the Android-device to the PC, you can use Synchronize in UniMobile or Media Device (MTP).

Synchronize
This function is used to synchronize transactions/weighings with the UniWin Server.
Data can also be send via E-Mail. This includes the *.csv and image files.
Also updates of customer/products/orders/picklists can be synchronized from UniWin Server towards UniMobile.
Note: This function is only available in Offline/StandAlone mode and needs a network connection.

Media Device (MTP)
This function is used to easily transfer files from your Android-device to your PC or vice versa via a USB-cable.
When a file should be copied to your PC or should be replaced on your Android-device this function is easy to use.
Note: óUSB Debuggingô should be enabled in óSettings > Developer optionsô

How to modify a Base*.csv file?

The Base*.csv files can be opened using e.g. Notepad. Each record in the file contains 3 possible fields which are separated with a semicolon (;).

Code;òDescriptionò;Number

Once you have updated the Base*.csv file, you need to copy it back into the correct folder on the Android-device (/storage/sdcard0/nl.uniwin.unimobile).

Possibly you have another application (Exact/Navision/SAP/etc.) that can generate these files for you, so you only have to copy them to the device after they are generated.

When you restart UniMobile, the new data-files will be used.

How to use a UniMobile*.csv file?

As mentioned the UniMobile.csv file contains all relevant data of each transaction/weighing.
If you have multiple dialogs installed on your unit, UniMobile will create a separate UniMobile*.csv file for each of the other dialogs.
In some applications, the name could be different, but the extension will be .csv.

The file(s) can be found in the UniMobile data-folder of the Android-device (/storage/sdcard0/nl.uniwin.unimobile).
This directory could also contain other files, such as image files that you might need to copy of the device. It is advised that when you copy the files of the device, you also delete them from the device, to save space. UniMobile will automatically create a new file if none exists. You can rename each UniMobile*.csv file on your pc-environment to be unique for each upload you do.

Each file contains a header that explains the contents of each record. The layout of the file depends on the application. The file can be used in e.g. Excel, Notepad or any other text enabled program.

Additional Installation Actions

Besides the standard UniMobile installation, your application may be deployed with additional files, which need to be copied to the device. These files can be found on your pc-environment in the directory where you unzipped the UniMobile files.

These files can be:
- *.prg for Dialog configuration (for Standalone only)
- Base.*.csv for Reference Data files (for Standalone only)

To copy these files simply use the Manual Installation procedure described above.

Note: These files need to be placed in the UniMobile data-folder. When a *.prg-file is placed and UniMobile is started, the *.prg file will be removed from the UniMobile data-folder and set in the UniMobile installation.

Start-up after Installation

After installation and possible copy of extra files, start UniMobile for the first time on your device.
UniMobile will directly ask to use the demo or cancel the message.
When cancelled, the Android-menu button can be used to go to ôSettingsõ.
See chapter ôFirst Timeõ for the settings for each mode. See ôMenu/Settingsõ for all the settings.

For Standalone mode, you will need to enter the license-details possibly together with a Validation Code. This Validation Code is device specific and depends on the Machine ID of your device, which is also shown in the Menu/About.

After the settings have been entered, the system is ready to run, provided that;
- For Offline mode — Sync with UniWin for a first time to upload of the files Data (base*.csv) and Dialogs.
- For Standalone mode — After copying the files Data (base*.csv) and Dialogs (*.prg) into the UniMobile data-folder on the Android-device.

General Terminal Settings

Depending on the needs of UniMobile, you may need to setup a Mobile Network/Wi-Fi connection.

Please check the Regional Settings in the ôSettings > Language and inputõ of the Android-device.
UniMobile uses these settings to read and write to files.
Important settings are Decimal point and List Separator.

Connecting a Scale

There is 1 possible way to connect a Scale (device) to the UniMobile-application:

- TCP/IP

Beside the connection via TCP/IP, UniMobile also needs communication parameters.
These parameters can be filled in in ôMenu/Settings/Scaleô. For these parameters (Poll, return, etc.) please contact your supplier.

With the option ôSimulateô a random weight is generated for testing purposes. Also you can
Swiping left: Decrease weight
Swiping right: Increase weight
Note: Please use simulate only for demonstration purposes.

Connecting a Printer

There are 2 possible ways to connect a Printer (device) to the UniMobile application:

- TCP/IP
- E-Mail

There is a 3th option called ôScreenô. When this option is selected a ticket will be shown on the Android-device after a transaction.
If a printer is set to a printer via TCP/IP the ticket will be send to the printer connected to the Android-device. A ticket can also be send via E-Mail, when this option is selected the data will be send as text.